



PORTABLE ENCODER/DECODER

Portable Encoder/Decoder

This video encoder/decoder features an embedded real-time multi-task operating system (RTOS) and an embedded processor, which is completely independent from a PC. Efficiently improves system performance. Software is burned in FLASH, making the system more stable and reliable.

The serial encoder/decoder has the functionality to compress the video signal and audio signal simultaneously into H.264 hardware compression; transmit the compressed bit rate through networks, display real-time video and audio; support streaming protocols (RTP/RTCP, RTSP); support IE browsing, bi-directional voice communication and multilingual support, etc.

Basic Function:

1. Real-time H.264 high speed hardware compression.
2. Multiple security levels for higher system safety.
3. Supports one RS-485 interface that can be used to control a pan-tilt-zoom camera and a translucent input channel.
4. Supports multi-area motion detection.

Compression Functions:

1. Supports 4 channels CIF or 1 channel D1 of video (PAL/NTSC) signal, and every channel can be real-time hardware-compressed independently at 25F/S(PAL) or 30F/S(NTSC). Video is compressed using H.264 standards. It **supports not only variable bit rate but also variable frame rate**. When choosing video image quality, you can also limit the bit rate of the compression code.
2. Support FULL D1 (704*576), CIF(352*288, QCIF 176*144 resolution
3. Supports OSD the position of the date and time, hue adjustment, date and time can be added automatically;
4. Supports a LOGO anywhere in the video image;
5. Supports water mark;

Network Functions:

1. Support one 10M/100M compatible Ethernet interface
2. Supports TCP/IP protocol, parameter settings, real time video & audio previewing, status examination.
3. Support dynamic broadband dialup
4. Supports pan-tilt-zoom control and different camera parameters like size of lens and focus;
5. Supports remote upgrading and maintenance;
6. RS-485 interfaces support transparent transmission mode. Remote hosts can control serial devices through the RS-485
7. Set video server parameters through the RS-232 serial ports

Physical Interfaces:

Front panel:

1. Audio in: 1 channel audio input.
2. Audio ou: 1 channel audio output.
3. Power supply indicator light. Network transferring and receiving indicator lights and network status (on/off) indicator light;
4. Standard Ethernet RJ45 socket (10M/100M interface)

Back panel:

1. +5V Power jack. Please use the correct power supply;
2. Standard RS-485 serial port RJ45 socket; Standard RS-232 serial port RJ45 socket;
3. Alarm input: 4-channel on/off type with ground wires
4. Alarm output grounding
5. Alarm output, 2-channel on/off
6. video input: 4 channels video input
7. audio input 4 channel audio input

Client-end

1. Remotely preview any individual video server's pictures, and combinate multi video server arbitrarily, 1/4/6/8/9/16 partition image display, can automatically cycle display or manual switch, easy and quick;
2. Can store the bit rates transferred by network (video and audio complex bit rate, can playback the stored bit rate, and can play in fast and slow motion also frame by frame
3. Can capture and store the appoint pictures. Stored pictures can be indexed and printed.
4. Remotely control PTZ cameras
5. Remotely configure video server parameter, channel parameter, serial parameter and alarm parameter.
6. Remote modify video parameter, including brightness, contrast, saturation and hue.
7. Support bi-directional voice dialogue.
8. Three-level security management
9. Remote firmware upgrade
10. Check time of the video server
11. Easy installation. Beautiful interface designed to operate easily.

Specifications

Video Compression Standard	H.264
Resolution	704*576, 352*288, 174*144
Video Input	4 Channels (NTSC, PAL System Auto Recognition) CIF BNC (Electrical Level: 1.0Vp-p, Resistance: 75 Ω) Or 1 Channels D1
Video Frame Rate	

	PAL: 25 Frame/Second NTSC: 30 Frame/Second
Code Stream	Can Select Single Video Stream or Composite Stream,
Video Compression Input Bit rate	16K~2M no limitation and self-defined (bps)
Audio Input	4 Channels BNC (Linear Electrical Level, Resistance:600 Ω .)
Audio Output	earphone jack
Audio Compression Standard	OggVorbis
Audio Compression Code Rate	16Kbps
Audio Dialog Input	Microphone jack
Communication interface	1 RJ45 10M/100M Self-adaptable Ethernet Interface 1 RS232 interface 1 RS 485 interface for PTZ
Alarm in	4 channel,
Alarm out	2 channels
Power Supply	DC +5V
Power Consumption	Less than 7W
Working Temperature	-10 50 C
Working Humidity	10%~90%
Size	202mm*145mm*43mm
Weight	1.5 Kg

Model	Description
EPE-01	1 Channel H.264AVC Portable Embedded Hardware Encoder
EPE-02	2 Channel H.264AVC Portable Embedded Hardware Encoder
EPE-03	3 Channel H.264AVC Portable Embedded Hardware Encoder
EPE-04	4 Channel H.264AVC Portable Embedded Hardware Encoder
EPD-01	1 Channel H.264AVC Portable Embedded Hardware Decoder
EPD-02	2 Channel H.264AVC Portable Embedded Hardware Decoder
EPD-03	3 Channel H.264AVC Portable Embedded Hardware Decoder
EPD-04	4 Channel H.264AVC Portable Embedded Hardware Decoder